

Listing of Claims:

1. (Cancelled)
2. (Currently Amended) ~~The A human antithrombin variant as claimed in claim~~
4 wherein the amino acid at position 78 in the amino acid sequence of natural
human antithrombin is replaced with Phe.
3. (Currently Amended) ~~The A human antithrombin variant as claimed in claim~~
4 wherein the amino acid at position 278 in the amino acid sequence of natural
human antithrombin is replaced with the amino acid selected from Ala, Arg, Asn,
Gly, His, Tyr, and Val.
4. (Currently Amended) ~~The A human antithrombin variant as claimed in claim~~
4 wherein the amino acid at position 378 in the amino acid sequence of natural
human antithrombin is replaced with the amino acid selected from Lys, Asn, and Val.
5. (Currently Amended) ~~The A human antithrombin variant as claimed in claim~~
4 wherein the amino acid at position 380 in the amino acid sequence of natural
human antithrombin is replaced with the amino acid selected from Ala, Asp, Gly, His,
Ile, Leu, Asn, Pro, Arg, Thr, Tyr, and Val.
6. (Currently Amended) A DNA encoding the human antithrombin variant as
claimed in claim 4 2.
7. (New) A DNA encoding the human antithrombin variant as claimed in
claim 3.
8. (New) A DNA encoding the human antithrombin variant as claimed in
claim 4.
9. (New) A DNA encoding the human antithrombin variant as claimed in
claim 5.

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com